

M E T E O R O L O G I C A L J O U R N A L

K E E P T A T T H E H O U S E o f

T H E R O Y A L S O C I E T Y,

B Y O R D E R O F T H E

P R E S I D E N T A N D C O U N C I L.

## METEOROLOGICAL JOURNAL

for January 1778.

	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without.	within.	Inches.	Inch.	Points.	Str.	
	H M.							
Jan.	1 8 0	30,0	31,0	29,79		N	1	Cloudy.
	2 0 0	34,0	32,5	29 84		NNE	1	Fine and frosty.
	2 8 0	38 0	31,5	29,98		N by E	1	Frosty.
	2 0 0	32,0	32,0	29,98		N	1	Fine and frosty.
3	8 0 0	33,0	31,0	29,99		NE	1	Frosty.
	2 0 0	34,0	32,5	29,99		N by E	1	Fine and frosty.
4	8 0 0	32,0	32 0	29,92		NE	1	Frosty.
	2 0 0	34,5	33,5	29,80		NNW	1	Fair and frosty.
5	8 0 0	27,0	32,0	29,81		N	1	Frosty.
	2 0 0	29,0	32,0	29,73		N by W	1	Frosty.
6	8 0 0	26,0	30,0	29,60		NW	1	Cloudy.
	2 0 0	32,0	31,0	29,58		N	1	Frosty.
7	8 0 0	24,0	29,0	29 58		SW	1	Frosty.
	2 0 0	27,0	29,0	29,57		NW	1	Frosty.
8	8 0 0	20,0	25,5	29,43		N	1	Frosty.
	2 0 0	28,0	26,5	29,43		N	1	Frosty.
9	8 0 0	19,0	24,0	29,69		N	1	Frosty.
	2 0 0	31,5	26,0	29,70		W by S	1	Frosty.
10	8 0 0	19,0	28,5	29,60		N by W	1	Foggy.
	2 0 0	35,0	30,0	29 54		E	1	Fair.
11	8 0 0	36,0	33,0	29,26	0,040	SW	1	Foggy.
	2 0 0	43,5	34,5	29,26		W by S	1	Foggy.
12	8 0 0	47,0	39 0	29,43		S by W	1	Fair.
	2 0 0	51,0	41,0	29,41		S by W	1	Fair.
13	8 0 0	47,0	45 0	29,60		SW	1	Fair.
	2 0 0	49,0	40,0	29,46		S by W	1	Fine.
14	8 0 0	44,0	45,5	29,62	0,095	SW	2	Fine.
	2 0 0	49,0	47,5	29,66		S by W	2	Fine.
15	8 0 0	48,0	48,5	29,70	0,200	S	2	Fine.
	2 0 0	57,0	49,0	29,74		SSW	1	Rainy.
16	8 0 0	45,0	49,0	29,95	0,050	E	1	Cloudy.
	2 0 0	43,0	50 0	29,98		SE	1	Fair.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Points.	Str.	
	91 M.			Inches	Inch.			
Jan. 17	8 0	39,5	48 0	30,07		NNW	I	Foggy.
	2 0	45,0	48,0	30,06		E by N	I	Fair.
18	8 0	44,0	47,0	30,07		E	I	Cloudy.
	2 0	45,0	47,5	30,17		E by N	I	Fair.
19	8 0	36,0	43,0	29 99	0,200	E	I	Cloudy.
	2 0	39,0	43,0	29,96		SE	I	Rainy.
20	8 0	32,0	39,0	29,93	0,027	E	I	Cloudy.
	2 0	36,5	39,5	29,81		E by S	I	Fair.
21	8 0	31,0	36,0	29,70		NE	I	Fair.
	2 0	38,0	37,0	29,68		NE	I	Fair.
22	8 0	35,0	37,0	29,61	0,040	NE	I	Cloudy.
	2 0	34,0	40,0	29,54		NE	I	Fair.
23	8 0	35,0	37,0	29,74		NE	I	Cloudy.
	2 0	39,5	39,5	29,77		SW	I	Fair.
24	8 0	43,5	41,5	29,43	0,103	NW	I	Foggy.
	2 0	42,5	42,5	29,50		N	I	Cloudy.
25	8 0	35,0	35,5	30,15	0,069	NNE	I	Fair.
	2 0	38,0	40,0	30,21		NE	I	Fine.
26	8 0	34,0	37,5	30,25		S E	I	Fair.
	2 0	30,0	35,0	30,17		S by W	I	Fine.
27	8 0	36,0	37,0	29,875		SSW	I	Fair.
	2 0	39,0	38,0	29,81		SSE	I	Rainy.
28	8 0	37,0	39,0	29,68	0,210	SW	I	Cloudy.
	2 0	44,0	40,0	29,49		N by W	I	Fine.
29	8 0	28,0	36,0	29,80		SW	I	Frosty.
	2 0	33,0	36,5	29,76		W by N	I	Fair.
30	8 0	27,5	31,5	29,78		N W	I	Fine.
	2 0	31,0	36,0	29,87		NW	I	Fine.
31	8 0	29,0	33,0	29,91		NW	I	Fine.
	2 0	38,0	36,0	30,14		W by N	I	Fine.

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for February 1778.

	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches.	Inch.	
	H. M.							
Feb. 1	8 o	40,0	36,0	29,93		S by W	1	Fair.
	2 o	44,0	38,0	29,77		SW	2	Cloudy.
2	8 o	38,0	37,0	29,52	0,085	SW	1	Fine.
	2 o	46,0	41,0	29,46		W by S	1	Fine.
3	8 o	35,5	39,0	29,56		NW	1	Fair.
	2 o	42,0	40,5	29,61		NW	2	Fine.
4	8 o	29,0	36,0	29,83		W by N	1	Fine.
	2 o	36,0	36,5	29,80		W by N	1	Cloudy.
5	8 o	31,0	34,0	29,88		NW by N	1	Fair.
	2 o	35,5	35,0	29,88		W by N	1	Fine.
6	8 30	31,5	33,5	29,79		NW	1	Foggy.
	2 o	38,0	35,0	29,77		NW	1	Fair.
7	8 o	30,0	35,0	29,84		SW	1	Foggy.
	2 o	39,0	36,5	29,87		SW by S	1	Fine.
8	8 o	28,0	33,5	29,99		NE	1	Frosty.
	2 o	34,5	37,0	29,98		N	1	Fine and frosty.
9	8 o	31,5	32,5	29,93		NE	2	Fair.
	2 o	32,0	33,0	29,91		N by E	2	Cloudy.
10	8 o	32,0	33,0	29,95		E	1	Cloudy.
	2 o	34,0	34,0	29,95		NE	1	Rain.
11	8 o	34,0	34,5	29,96	0,088	NE by N	1	Cloudy.
	2 o	36,0	35,5	30,06		NE by N	1	Cloudy.
12	8 o	33,0	30,0	29,75	0,067	NW	1	Snow.
	2 o	33,5	35,5	29,67		NNE	2	Snow.
13	8 30	33,0	35,0	29,74	0,110	NE	1	Snow.
	2 o	35,5	35,5	29,74		NE	1	Snow.
14	8 o	31,0	34,5	29,91	0,081	NE by N	1	Fair.
	2 o	36,0	37,5	29,85		NE	1	Fine.
15	8 o	34,0	36,0	29,46		SW	1	Foggy.
	2 o	38,0	37,5	29,42		NW b N	1	Fine.
16	8 o	29,0	33,5	29,42		N by W	2	Fine.
	2 o	36,5	35,0	29,42		N by W	1	Fine.

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	Time	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
	H. M.			Inches.	Inch.			
Feb. 17	8 0	33,0	34,5	29,30		SE	1	Snow.
	2 0	39,0	36,0	29,26		SSW	1	Fine.
18	8 0	30,5	34,5	29,26	1,079	SE	1	Fine.
	2 0	35,0	30,0	29,26		N by W	1	Fine.
19	8 0	27,0	32,5	29,45		N	1	Snow.
	2 0	31,0	34,0	29,49		NE by N	1	Fine.
20	8 0	27,0	30,0	29,43		ENE	1	Frosty.
	2 0	33,5	33,5	29,31		NE	1	Frosty.
21	8 0	29,0	32,0	29,26		NE	2	Snow.
	2 0	34,0	33,0	29,21		ENE	2	Cloudy.
22	8 30	40,0	36,0	29,99	0,530	SE	1	Rain.
	2 0	49,0	39,0	29,08		WSW	1	Fair.
23	8 30	47,0	40,0	29,33	0,177	SW	1	Fair.
	2 0	53,0	43,0	29,43		SSW	2	Fine.
24	8 0	48,0	45,5	29,32	0,051	SW	2	Fair.
	2 0	53,5	48,0	29,43		SW	2	Fine.
25	8 0	44,5	47,0	29,87		S	1	Fair.
	2 0	51,0	49,0	29,93		SW by S	1	Fair.
26	8 0	46,5	48,0	29,94		S	1	Fine.
	2 0	56,5	53,5	29,94		SSE	1	Fine.
27	8 0	44,5	48,5	29,85		S	1	Fine.
	2 0	59,0	52,0	29,83		SSW	1	Fine.
28	8 30	43,0	48,0	30,04	0,020	NE	1	Fine.
	2 0	51,0	50,0	30,04		NE	1	Fine.

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for March 1777.

	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without.	within.			Points.	Str.	
	H. M.							
Mar. 1	8 0	42,0	45,0	29,96		ENE	1	Fair.
	2 0	51,0	48,0	29,89		NE	1	Fine.
2	8 0	47,5	48,0	29,81		E	1	Foggy.
	2 0	61,0	51,0	29,75		SW	1	Fine.
3	8 0	50,0	51,5	29,78	0,230	WSW	1	Rain.
	2 0	58,0	54,0	29,85		SW	1	Fair.
4	8 0	48,0	52,0	29,94		S	1	Fair.
	2 0	56,0	54,5	29,94		SE	1	Fair.
5	8 0	45,5	51,5	29,76		ENE	1	Rain.
	2 0	50,0	52,0	29,72		NE by E	1	Fair.
6	7 30	40,5	48,0	29,81		NW	1	Fair.
	2 30	45,5	48,0	29,79		WNW	1	Fair.
7	8 30	33,0	39,0	29,83		NE	1	Fine.
	2 0	41,0	41,5	29,80		NE	1	Fine.
8	8 0	31,5	36,0	29,59		SW	1	Foggy.
	2 0	42,0	42,0	29,51		NE	1	Fair.
9	8 0	37,0	39,5	29,37		NW	1	Fair.
	2 0	39,0	40,0	29,39		NE	1	Cloudy.
10	7 30	31,5	37,5	29,59	0,063	NNW	1	Fair.
	2 0	39,0	38,5	29,66		NE	1	Fine.
11	7 30	31,0	35,5	29,76		NE	1	Fine.
	2 0	41,5	38,5	29,75		ENE	1	Fair.
12	7 30	31,0	35,5	29,72		NE	1	Fine.
	2 0	40,5	38,0	29,72		NE	1	Fair.
13	7 30	32,5	35,5	29,77		S by E	1	Fine.
	2 0	42,5	38,5	29,73		NW	1	Fine.
14	7 30	38,0	38,5	29,66	0,383	N by W	1	Fair.
	2 0	46,0	43,0	29,74		N by W	1	Fine.
15	7 30	45,0	42,0	29,71	0,205	SW	1	Rain.
	2 0	51,0	46,0	29,65		SW	1	Fair.
16	8 30	47,0	45,0	29,01	0,148	SSW	2	Rain.
	2 0	50,0	49,0	29,97		SW	2	Rain.

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for March 1777.

	Time.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
	H. M.							
Mar. 17	7 30	42,0	47,0	29,33	0,106	W by S	2	Fair.
	2 0	49,0	47,0	29,62		NW	1	Fine.
18	7 0	49,5	48,0	29,48	0,065	SW	1	Fair.
	2 0	57,5	54,0	29,53		SW	2	Fine.
19	7 0	50,5	51,0	29,47	0,020	SW	2	Rain.
	2 0	56,0	54,5	29,29		SW	2	Fine.
20	7 0	45,5	48,5	29,39	0,118	SW	3	Rain.
	2 0	52,0	52,0	29,51		W by S	2	Fine.
21	7 0	41,0	48,0	29,74	0,025	WSW	1	Fine.
	2 0	53,5	50,5	29,76		W	1	Fine.
22	7 0	37,5	46,0	29,96		SW	1	Fine.
	2 0	52,0	49,0	29,98		NW	1	Fine.
23	7 0	40,0	45,0	30,15		NE	1	Cloudy.
	2 0	47,5	47,0	30,09		S by W	1	Cloudy.
24	7 0	46,0	46,5	30,04	0,025	SW	1	Fair.
	2 0	47,5	47,0	30,09		SE	1	Fine.
25	7 0	51,5	52,0	29,88		S by W	1	Fine.
	2 0	69,0	56,5	29,81		S by W	1	Fine.
26	7 0	53,0	57,0	29,88		S	1	Fine.
	2 0	72,0	64,0	29,94		SSE	1	Fine.
27	7 0	52,0	59,5	29,95		ENE	1	Fine.
	2 0	70,5	65,0	29,96		S	1	Fine.
28	7 0	43,0	54,0	30,03		NE	1	Fair.
	2 0	46,0	54,0	30,03		NE	1	Fair.
29	7 0	38,0	46,0	30,09		NE	1	Cloudy.
	2 0	45,0	47,0	30,09		NE	1	Fair.
30	7 0	36,0	42,0	30,11		N by E	1	Fair.
	2 0	45,5	44,5	30,04		NNE	2	Fair.
31	7 0	35,5	40,5	29,91		NE	2	Cloudy.
	2 0	44,5	43,5	29,95		SE	2	Fair.

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for April 1777.

	Time, H. M.	Therm. without	Therm. within.	Barom. Inches	Rain. Inch.	Winds.		Weather.
						Points.	Str.	
April 1	7 0	35,0	38,5	29,96		NE	2	Cloudy.
	2 0	35,0	39,5	29,96		NE	2	Fine.
2	7 0	41,0	42,0	30,08		NE	2	Fine.
	2 0	47,0	45,0	30,09		NE	1	Fair.
3	7 0	43,0	44,0	30,10		N by W	1	Fine.
	2 0	52,0	47,5	30,12		NE	2	Fine.
4	7 0	40,5	43,5	30,20		NNE	1	Fair.
	2 0	50,5	46,5	30,23		NE	1	Fine.
5	7 0	34,5	41,0	30,35		NE	1	Fine.
	2 0	46,0	44,0	30,35		E by S	1	Fine.
6	7 0	33,0	38,5	30,29		N by E	1	Fine.
	2 0	48,5	43,0	29,24		NE	1	Fine.
7	7 0	37,0	40,0	30,13	0,010	NE	1	Fair.
	2 0	47,0	44,0	30,13		NE	1	Cloudy.
8	7 0	37,5	40,0	30,13		NE	1	Fine.
	2 0	46,5	43,5	30,13		NE	2	Fine.
9	7 0	40,0	41,0	30,05		ENE	2	Fine.
	2 0	49,0	44,0	30,07		ENE	2	Fine.
10	7 0	42,0	44,0	30,12		E by S	1	Fine.
	2 0	59,0	49,0	30,06		E by S	1	Fine.
11	7 0	49,5	48,5	29,98		E by S	1	Fine.
	2 0	62,0	53,0	29,99		SW	1	Fair.
12	7 0	51,5	53,0	29,83	0,130	S by W	1	Cloudy.
	2 0	60,0	56,5	29,79		SW	2	Fine.
13	7 0	48,0	51,5	29,85	0,038	SW	2	Fine.
	2 0	57,5	55,0	29,88		WSW	2	Fine.
14	7 0	42,0	49,0	30,06		NE	2	Fair.
	2 0	43,0	49,0	30,06		NE	2	Fair.
15	7 0	42,5	47,0	30,19	0,045	NNE	2	Fair.
	2 0	47,0	49,0	30,23		NE	1	Rain.
16	7 0	30,0	46,0	30,26	0,010	NE	1	Cloudy.
	2 0	49,0	48,0	30,20		NE	1	Fair.

M E T E O R O L O G I C A L J O U R N A L  
for April 1777.

	Time.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.	
						H. M.	Inches.	Inch.	
Apr. 17	7 o	37,0	44,0	29,92		NE	1	Fair.	
	2 o	51,0	46,0	29,73		ENE	1	Fine.	
18	7 o	38,0	43,0	29,60		NE	2	Fair.	
	2 o	45,0	45,0	29,60		NE	2	Cloudy.	
19	7 o	35,0	40,0	29,79		NNE	1	Fine.	
	2 o	49,5	43,5	29,84		E by N	2	Fine.	
20	7 o	41,0	41,0	30,04		SE	1	Fine.	
	2 o	52,0	45,0	29,98		SE	1	Fine.	
21	7 o	48,5	46,0	29,51	0,203	S by W	2	Rain.	
	2 o	56,0	50,0	29,50		SW	2	Rain.	
22	7 o	57,0	53,5	29,45	0,010	SW	3	Rain.	
	2 o	60,0	56,0	29,48		SW	3	Fair.	
23	7 o	53,0	55,0	29,64	0,032	SW	2	Fair.	
	2 o	61,0	56,5	29,55		SW	2	Fine.	
24	7 o	45,0	53,0	29,62	0,075	W by N	3	Fair.	
	2 o	63,0	58,5	29,76		W by N	3	Fine.	
25	7 o	42,0	49,0	30,08	0,011	W	1	Fine.	
	2 o	55,0	56,5	30,09		W	2	Fair.	
26	7 o	41,5	47,5	30,23	0,023	W by S	1	Fair.	
	2 o	54,5	50,5	30,18		W by N	1	Fine.	
27	7 o	40,0	45,0	30,18		NE	1	Fine.	
	2 o	51,0	48,5	30,16		NE	1	Fine.	
28	7 o	43,0	46,5	30,13		E by S	1	Fair.	
	2 o	56,0	50,0	29,98		NE	1	Fair.	
29	7 o	46,0	47,0	29,84		E by S	1	Fine.	
	2 o	55,5	53,5	29,80		E by S	2	Fair.	
30	7 o	47,0	50,0	29,58	0,200	E by S	1	Rain.	
	2 o	59,0	53,5	29,59		SE	1	Fair.	

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for May 1777.

	Time.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.	
						Points.	Str.		
	H. M.			Inches.	Inch.				
May	1	7 0	50,5	53,5	29,55	0,137	SSW	1	Cloudy.
	2	0	64,0	56,5	29,47		S by E	1	Fine.
	2	7 0	55,0	56,5	29,34		S by E	1	Fair.
	2	0	59,5	58,5	29,34		SSW	1	Fair.
	3	7 0	54,0	57,0	29,33	0,075	WNW	2	Fine.
	2	0	61,5	59,0	29,39		SSW	2	Fair.
	4	7 0	51,0	56,0	29,41	0,216	SE	1	Rain.
	2	0	62,0	58,5	29,38		SW	1	Fine.
	5	7 0	53,5	57,0	29,67	0,030	S by W	1	Fair.
	2	0	61,0	58,5	29,76		SW	1	Fine.
	6	7 0	52,0	56,5	29,81	0,030	SE	1	Fair.
	2	0	65,0	59,0	29,74		SE	1	Fine.
	7	7 0	51,5	56,5	29,85	0,033	W by N	2	Fine.
	2	0	58,5	59,0	29,91		W by N	1	Rain.
	8	7 0	51,0	55,5	30,15	0,011	SW	1	Fine.
	2	0	66,0	59,0	30,13		SW	1	Fine.
	9	7 0	54,5	55,0	29,93		NE	1	Fair.
	2	0	62,0	59,5	29,92		NE	1	Fair.
	10	7 0	47,5	54,5	29,88	1,490	NE	2	Fair.
	2	0	60,0	57,0	30,02		NNE	1	Fine.
	11	7 0	53,0	55,0	30,08		N by W	1	Fine.
	2	0	60,0	58,0	30,04		NW	1	Fair.
	12	7 0	47,0	54,0	30,00	0,010	NW	1	Fine.
	2	0	58,0	55,5	30,03		NW	1	Fine.
	13	7 0	52,5	54,0	30,00	0,010	SSW	1	Fine.
	2	0	60,0	57,0	29,86		SSW	2	Fair.
	14	7 0	49,5	55,0	29,55	0,040	WSW	1	Fair.
	2	0	59,0	57,5	29,48		SW	1	Fair.
	15	7 0	47,5	55,0	29,35	0,271	SW	1	Rain.
	2	0	52,0	56,0	29,35		SW	1	Rain.
	16	7 0	48,0	51,5	29,40	0,238	NE	1	Rain.
	2	0	53,5	55,0	29,44		NE by N	1	Fair.

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for May 1777.

	Time.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
	H. M.			Inches	Inch.			
May 17	7 0	46,5	51,5	29,60	0,157	NE by E	1	Fair.
	2 0	54,5	54,0	29,67		NE by N	1	Fair.
18	7 0	44,0	52,0	29,77		NW	1	Fair.
	2 0	60,5	54,0	29,77		WSW	1	Fine.
19	7 0	51,5	53,0	29,77		SE	1	Fine.
	2 0	58,0	56,0	29,73		NE	1	Fair.
20	7 0	47,0	54,0	29,60	0,728	NE	1	Rain.
	2 0	53,0	55,0	29,69		NE	1	Fair.
21	7 0	46,5	52,0	29,77	0,410	NNW	1	Rain.
	2 0	59,0	56,0	29,86		NNW	1	Fair.
22	7 0	50,5	54,5	29,82		S by W	1	Fair.
	2 0	63,0	58,0	29,80		WSW	2	Fine.
23	7 30	51,5	55,5	29,78	0,180	SE	1	Fine.
	2 0	63,0	58,5	29,83		SW	1	Fine.
24	7 0	53,0	57,5	29,63		S	1	Rain.
	2 0	57,5	58,0	29,55		NW	1	Fair.
25	7 0	51,5	57,0	29,57	0,010	SW b W	1	Fine.
	2 0	63,5	62,0	29,57		SW	1	Fine.
26	7 0	52,0	57,0	29,77	0,038	NNE	1	Fine.
	2 0	53,0	58,0	29,85		NE	2	Rain.
27	7 0	53,0	58,0	29,91	0,488	SW	1	Fine.
	2 0	66,5	60,5	29,95		SW	1	Fine.
28	7 0	58,0	60,5	30,06		N by E	1	Fine.
	2 0	67,5	63,5	30,12		NW	1	Fine.
29	7 0	51,5	53,0	30,20		NE	1	Fair.
	2 0	61,5	60,5	30,20		SE	1	Fine.
30	7 0	57,0	60,0	30,12		E	1	Fine.
	2 0	64,0	59,0	30,06		SE	1	Fine.
31	7 0	59,0	60,5	30,13		SE	1	Fine.
	2 0	70,5	64,0	30,09		SE	1	Fine.

## METEOROLOGICAL JOURNAL

for June 1777.

	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches	Inch.	
	H. M.							
June 1	7 o	60,5	64,0	30,02		S	1	Fine.
	2 o	71,0	67,0	30,00		WSW.	1	Fine.
2	7 o	62,0	65,5	30,08		W	1	Fair.
	2 o	72,0	68,0	30,13		WSW	1	Fair.
3	7 o	63,0	68,0	30,22		S by W	1	Fair.
	2 o	70,0	70,0	30,22		SE	1	Fine.
4	7 o	62,0	68,5	30,18		S by W	1	Fine.
	2 o	75,0	78,0	30,09		SW	1	Fine.
5	7 o	57,5	65,0	30,15		N by W	1	Fine.
	2 o	66,0	64,0	30,20		NW	1	Fine.
6	7 o	51,0	57,5	30,33		NNE	1	Fine.
	2 o	66,0	62,5	30,38		NE	1	Fine.
7	7 o	54,5	58,5	30,31		ENE	1	Fine.
	2 o	67,0	62,0	30,19		NW	1	Fine.
8	7 o	53,0	58,5	30,01		NW	1	Fine.
	2 o	60,0	61,5	29,98		NE	1	Fine.
9	7 o	50,0	56 0	29,97		N by W	2	Fine.
	2 o	55,5	57,0	29,95		NNE	2	Fair.
10	7 o	47,5	52,5	29,92		NNW	1	Fair.
	2 o	54,0	54,5	29,88		NW	1	Cloudy.
11	7 o	49,5	52,5	29,77	0,131	E by S	1	Fair.
	2 o	52,0	53,5	29,75		SE	1	Rain.
12	7 o	47,5	52,5	29,76	0,110	NNW	1	Fair.
	2 o	60,0	56,0	29,76		NW	1	Fine.
13	7 o	56,0	56,5	29,76		SSW	1	Fine.
	2 o	64,0	58,5	29,72		SW	2	Fair.
14	7 o	55,0	58,0	29,65	0,174	WSW	2	Fine.
	2 o	64,0	52,0	29 76		SW	1	Fine.
15	7 o	57,0	59,5	29,81	0,169	S by W	1	Cloudy.
	2 o	61,0	61,5	29,83		S by W	2	Raid.
16	7 o	58,5	61,5	29,86		S by W	1	Cloudy.
	2 o	63,0	63,0	29,84	0,049	S by W	2	Rain.

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for June 1777.

	Time.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
June 17	7 o	58,0	61,0	29,73	0,215	SW	1	Cloudy.
	2 o	63,5	64,0	29,81		SW	1	Fine.
18	7 o	54,5	60,0	30,10		WSW	1	Fair.
	2 o	66,5	62,5	30,17		WSW	1	Fine.
19	7 o	57,0	61,5	30,14		SSW	1	Cloudy.
	2 o	61,0	63,0	30,05		SW	2	Cloudy.
20	7 o	57,5	62,0	29,74	0,377	SW	1	Cloudy.
	2 o	63,0	65,0	29,66		SW	1	Fine.
21	7 o	57,5	62,0	29,72	1,109	W	1	Fine.
	2 o	67,0	65,0	29,77		W	1	Cloudy.
22	7 o	60,0	64,0	29,74	0,176	W by S	1	Fine.
	2 o	62,5	64,5	29,74		SW	1	Rain.
23	7 o	52,5	60,5	29,83	0,344	N by E	1	Cloudy.
	2 o	59,0	62,5	29,90		E by S	1	Cloudy.
24	7 o	53,5	60,0	29,97	0,405	NE	1	Fine.
	2 o	60,0	61,0	30,11		NE	1	Fine.
25	7 o	53,5	59,0	30,35	0,260	NNW	1	Fine.
	2 o	65,0	61,0	30,42		NW	1	Cloudy.
26	7 o	61,5	62,0	30,14		SW	1	Fine.
	2 o	70,0	64,0	29,99		SW	1	Fine.
27	7 o	56,5	62,5	29,76	0,010	SW b W	1	Fine.
	2 o	62,0	62,5	29,77		NW	1	Cloudy.
28	7 o	55,0	60,5	29,99	0,133	NW	1	Fair.
	2 o	60,5	62,0	29,85		SW	1	Fine.
29	7 o	57,0	61,0	29,89		W	1	Fair.
	2 o	68,0	64,0	29,83		SW	2	Fair.
30	7 o	57,0	61,5	29,70	0,092	W by S	1	Fair.
	2 o	68,0	64,0	29,78		SW	1	Fine.

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	Time.	I herm. without within.	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
	H. M.			Inches.	Inch.			
July 1	7 0	58,0	61,5	29,70	0,372	SSE	1	Cloudy.
	2 0	61,0	62,5	29,57		E by S	1	Cloudy.
2	7 0	58,5	61,5	29,68	0,702	WSW	1	Fair.
	2 0	68,0	63,5	29,72		SW	1	Fair.
3	7 0	61,0	63,0	29,72	0,120	SW	1	Fine.
	2 0	63,0	64,5	29,66		SE	1	Rain.
4	7 0	57,0	63,0	29,47	0,480	S by E	2	Fine.
	2 0	64,0	64,0	29,58		SW	1	Fine.
5	7 0	55,0	60,5	29,53	0,154	S by W	2	Rain.
	2 0	64,5	63,5	29,61		S by W	2	Fair.
6	7 0	58,5	62,0	30,00	0,031	SW	1	Fair.
	2 0	63,0	63,5	30,07		WSW	1	Fair.
7	7 0	60,0	62,0	30,05		SW	1	Fine.
	2 0	57,0	62,0	29,88		SW	1	Rain.
8	7 0	55,0	59,5	29,82	0,291	W	1	Cloudy.
	2 0	61,0	62,0	29,85		N	1	Fine.
9	7 0	55,0	58,5	30,14	0,023	NNE	1	Cloudy.
	2 0	58,0	59,0	30,23		NW	1	Cloudy.
10	7 0	54,5	58,0	30,33		N	2	Fair.
	2 0	59,5	60,5	30,39		N by W	1	Fair.
11	7 0	64,0	61,5	30,39		SW	1	Fair.
	2 0	75,0	65,0	30,37		NW	1	Fine.
12	7 0	65,5	66,0	30,34		SSW	1	Fair.
	2 0	74,0	68,0	30,34		SW	1	Fine.
13	7 0	66,0	68,5	30,37		NNW	1	Fine.
	2 0	78,0	70,0	30,39		NW	1	Fine.
14	7 0	64,5	68,5	30,40		W by N	1	Fine.
	2 0	80,0	73,0	30,45		SW	1	Fine.
15	7 0	61,5	70,0	30,34		W by N	1	Fine.
	2 0	76,0	72,0	30,34		NW	1	Fine.
16	7 0	67,5	72,0	30,29		S	1	Fine.
	2 0	81,0	74,0	34,22		NE	1	Fine.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches.	Inch.	
	H. M.							
July 17	7 o	66,0	72,5	30,04		S	o	Fine.
	2 o	84,0	74,0	29 97		SW	1	Fine.
18	7 o	64,5	73,5	29,92		N	1	Fine.
	2 o	79,0	75,5	29,90		NW	1	Fine.
19	7 o	65,0	72,5	29,81		WNW	1	Fine.
	2 o	73,0	73,5	29,81		NW	1	Fair.
20	7 o	58,5	69,0	29,60	1,120	N	1	Rain.
	2 o	65,5	70,5	29,73		NW	1	Fair.
21	7 o	57,0	63,5	29,56	1,194	NE	1	Rain.
	2 o	60,0	67,5	29,59		NE	1	Fair.
22	7 o	56,0	63,5	29,87	0,235	NE by N	2	Fine.
	2 o	67,0	66,0	29,88		SE	1	Fine.
23	7 o	63,0	64,5	29,73	0,045	SSE	1	Cloudy.
	2 o	73,0	68,5	29,67		SW	1	Cloudy.
24	7 o	58,0	67,5	29,58		SW	1	Fair.
	2 o	68,0	67,5	29,55		SW	1	Fair.
25	7 o	53,5	62,5	29,71	0,173	NNE	1	Cloudy.
	2 o	62,0	64,5	29,79		NNE	1	Cloudy.
26	7 o	54,0	60,5	29,94		N by W	2	Fine.
	2 o	60,0	62,0	29,95		NW	1	Cloudy.
27	7 o	50,5	60,5	29,91		W by N	1	Fair.
	2 o	65,5	63,5	29,89		SW	1	Fair.
28	7 o	57,0	61,0	29,89	0,010	SW b W	1	Rain.
	2 o	68,0	63,5	29,85		SW	1	Fine.
29	7 o	58,5	62,5	29,68	0,266	SE by S	1	Fair.
	2 o	60,0	62,5	29,54		SE	1	Cloudy.
30	7 o	57,5	62,5	29,52	0,181	SW	1	Cloudy.
	2 o	67,0	64,5	29,51		SE	1	Cloudy.
31	7 o	58,0	62,0	29,31	0,300	SE	3	Rain.
	2 o	62,0	64,0	29,45		SE	2	Rain.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches.	Inch.	
	H. M.							
Aug. 1	7 o	57,0	62,0	29,61	0,366	SW by S	1	Fair.
	2 o	69,0	65,0	29,65		SW	1	Fine.
2	7 o	58,5	63,0	29,86	0,010	W by N	1	Fair.
	2 o	62,0	63,5	29,98		NW	1	Cloudy.
3	7 o	55,5	61,5	30,17		NNW	1	Fine.
	2 o	67,0	63,5	30,23		NW	1	Fine.
4	7 o	57,0	62,5	30,24		S by W	1	Fine.
	2 o	71,5	65,0	30,18		SW	1	Fine.
5	7 o	58,5	63,5	30,04		SW	1	Fair.
	2 o	65,5	65,0	29,97		SW	1	Fair.
6	7 o	56,5	62,0	29,95		S by W	1	Fair.
	2 o	70,0	65,0	30,01		SW	1	Fair.
7	7 o	58,0	63,5	30,09		SW b S	1	Fine.
	2 o	72,5	67,5	30,05		SW	1	Fine.
8	7 o	63,5	65,5	29,84		SSW	1	Fair.
	2 o	82,0	70,0	29,84		SSW	1	Fair.
9	7 o	67,0	69,0	29,63		SW	1	Fine.
	2 o	69,0	71,0	29,78		SW	1	Fair.
10	7 o	59,5	64,5	29,98		SW	1	Fine.
	2 o	70,0	68,0	30,04		SW	1	Fine.
11	7 o	62,0	66,0	29,97		SSE	1	Fine.
	2 o	75,5	68,5	29,94		SW	1	Fine.
12	7 o	65,5	68,5	30,01		SW	1	Fair.
	2 o	77,0	72,0	30,01		SW b W	1	Fair.
13	7 o	62,0	69,5	30,22	0,020	NE	1	Cloudy.
	2 o	73,0	71,5	30,29		NE	1	Fine.
14	7 o	62,5	70,0	30,30		WSW	1	Fine.
	2 o	78,0	72,0	30,35		SW	1	Fine.
15	7 o	60,5	70,0	30,26		W by S	1	Fine.
	2 o	76,5	72,5	30,22		WNW	1	Fine.
16	7 o	61,0	70,0	30,15		SSW	1	Cloudy.
	2 o	78,0	74,0	30,15		W by N	1	Fine.

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	Time.	therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						Points.	Str.	
	H. M.							
Aug. 17	7 o	62,0	71,5	30,14		NW	1	Fair.
	2 o	74,0	72,5	33,10		NW	1	Fine.
18	7 o	62,0	69,5	30,07		NE	1	Fair.
	2 o	70,0	70,5	30,16		NE	1	Fine.
19	7 o	59 o	66,5	30,09		NE	1	Fair.
	2 o	75,0	70,0	30,05		SE	1	Fine.
20	7 o	59,0	67,0	30,05		ENE	1	Fine.
	2 o	80,0	70,0	30,05		NE	1	Fine.
21	7 o	64,5	68,5	29,83		SW by S	1	Fair.
	2 o	68,0	69,0	29,78		SW	1	Cloudy.
22	7 o	66,0	66,0	29,86	0,062	SW	2	Fine.
	2 o	69,0	68,0	29,93		W by S	2	Cloudy.
23	7 o	61,0	65,5	30,09		WSW	1	Fair.
	2 o	69,0	67,0	30,12		SW	1	Fair.
24	7 o	58,5	65,0	30,05		SW	0	Fair.
	2 o	74,0	68,0	29,98		SW	2	Fine.
25	7 o	63,0	67,0	29,95		SW	1	Cloudy.
	2 o	74,0	70,0	30,03		SW	1	Cloudy.
26	7 o	64,0	69,0	30,20		SW	1	Fair.
	2 o	76,0	71,0	30,31		SW	1	Fair.
27	7 o	56,5	66,5	30,45		NE	1	Fine.
	2 o	73,0	70,0	30,43		SE	1	Fine.
28	7 o	59,5	66,5	30,26		E by S	1	Fine.
	2 o	71,0	70,0	30,14		SE	1	Fine.
29	7 o	64,0	68,5	29,95	0,032	W by S	1	Cloudy.
	2 o	70,0	69,0	30,02		NW	1	Fine.
30	7 o	55,0	65,0	29,93		NE	1	Cloudy.
	2 o	59,5	66,0	29,73		SSE	1	Rain.
31	7 o	56,0	54,5	29,50	0,585	WNW	2	Fair.
	2 o	60,5	64,5	29,78		NW	2	Cloudy.

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	Time	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches.	Inch.	
	H. M.							
Sept. 1	7 o	48,0	60,5	30,15			W by N	1 Fine.
	2 o	64,5	62,5	30,12			WNW	2 Fair.
2	7 o	56,5	60,5	29,87			WSW	1 Cloudy.
	2 o	66,0	63,5	29,83			W by S	2 Fair.
3	7 o	51,5	59,5	29,76	0,092		NW	1 Fine.
	2 o	62,0	60,5	29,94			NNW	1 Fine.
4	7 o	52,5	59,5	30,03	0,010		N by W	1 Cloudy.
	2 o	63,5	61,5	30,01			NW	1 Cloudy.
5	7 o	59,5	61,5	30,16	0,103		NW	1 Cloudy.
	2 o	66,0	63,5	30,22			NW	1 Cloudy.
6	7 o	57,0	62,0	30,28			NW	1 Fair.
	2 o	73,0	66,0	30,28			NW	1 Cloudy.
7	7 o	61,0	65,0	30,25			SSW	1 Fine.
	2 o	75,0	68,0	30,24			NE	1 Fine.
8	7 o	58,5	65,5	30,20			SSE	1 Fair.
	2 o	75,0	69,0	30,18			S by W	1 Fair.
9	7 o	56,5	65,0	30,13			S by W	1 Fine.
	2 o	76,0	70,0	30,16			SW	1 Fine.
10	7 o	56,5	66,0	30,25			NW	1 Fine.
	2 o	67,0	67,0	30,28			N by W	1 Fine.
11	7 o	53,0	64,0	30,33			SW	1 Fine.
	2 o	70,0	66,0	30,29			NW	1 Fine.
12	7 o	55,5	64,0	30,29			N by E	1 Fair.
	2 o	70,0	65,5	30,32			NE	1 Fine.
13	7 o	57,5	63,0	30,27			NE	1 Fair.
	2 o	65,0	65,0	30,27			NE	1 Fine.
14	7 o	54,5	61,0	30,25			ENE	1 Fine.
	2 o	64,0	62,5	30,25			ENE	2 Fine.
15	7 o	57,5	55,5	30,33			NE by N	1 Fine.
	2 o	63,0	60,0	30,35			NE	2 Fine.
16	7 o	43,0	53,0	30,29			NE	1 Cloudy.
	2 o	66,0	59,5	30,22			SW	1 Fine.

**M E T E O R O L O G I C A L J O U R N A L**  
for September 1777.

	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Inches.	Inch.	
	H. M.							
Sept. 17	7 o	47,0	54,5	30,19		S by W	1	Fine.
	2 o	68,0	60,0	30,19		SW	1	Fine.
18	7 o	56,5	59,0	30,15		SE	1	Cloudy.
	2 o	72,0	67,5	30,12		S, E	1	Fine.
19	7 o	51,5	60,0	30,08		SE	1	Fair.
	2 o	70,0	62,5	30,01		SE	1	Fine.
20	7 o	57,0	61,5	30,05		NE	1	Fair.
	2 o	61,5	61,5	30,15		NE	1	Fine.
21	7 o	47,0	56,5	29,96		NE	1	Fine.
	2 o	59,0	60,5	29,84		NE	1	Fine.
22	7 o	51,0	58,5	29,69		W by S	1	Fine.
	2 o	60,0	60,5	29,79		NW	1	Fine.
23	7 o	42,5	55,5	29,99		SSW	1	Fine.
	2 o	60,0	58,0	30,03		NW	1	Fine.
24	7 o	48,0	54,5	29,97		ESE	1	Foggy.
	2 o	63,0	57,0	29,92		SW	1	Fine.
25	7 o	49,5	55,5	29,82		E by N	1	Fair.
	2 o	67,5	58,5	29,82		SW	1	Fine.
26	7 o	56,0	58,0	29,74		SE	1	Fine.
	2 o	75,0	66,0	29,71		SE	1	Fine.
27	7 o	60,5	64,0	29,90	0,220	S by E	1	Fair.
	2 o	72,0	66,5	29,91		S by E	1	Fine.
28	7 o	62,5	6,5	29,99		E	1	Cloudy.
	2 o	76,5	70,0	30,00		ENE	1	Fine.
29	7 o	60,0	66,5	29,94		NE	1	Fine.
	2 o	69,5	68,5	30,02		SW	1	Cloudy.
30	7 o	57,0	65,5	30,10	0,073	SE	1	Fine.
	2 o	67,0	68,0	30,06		SE	1	Fine.

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St.	Time, H. M.	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
				Inches	Inch.	Points.	Str.	
1	7 0	60,5	65,5	29,74	0,053	SE	1	Rain.
	2 0	62,0	66,0	29,58		SE	1	Rain.
2	7 0	52,0	63,0	29,54	0,462	S by E	1	Fair.
	2 0	62,5	63,5	29,56		NW	1	Fine.
3	7 0	48,0	59,5	29,05	0,016	W	1	Fair.
	2 0	61,5	61,5	29,75		SW	1	Fine.
4	7 0	56,0	59,0	29,59	0,017	SW	2	Rain.
	2 0	64,5	61,0	29,60		SW	2	Fair.
5	7 0	55,0	59,5	29,84	0,014	SW	2	Fine.
	2 0	65,5	61,5	29,92		SW	2	Fine.
6	7 0	55,0	59,5	30,03		E by S	1	Cloudy.
	2 0	67,5	62,5	29,99		ESE	1	Fair.
7	7 0	60,0	61,0	29,79	0,014	S by W	2	Rain.
	2 0	64,0	63,5	29,79		SW	2	Rain.
8	7 0	50,5	59,5	30,03	0,025	W by S	1	Fair.
	2 0	60,5	61,0	30,09		WSW	1	Fine.
9	7 0	49,0	57,0	30,16		SSW	1	Fair.
	2 0	63,5	60,0	30,14		SE	1	Fine.
10	7 0	47,5	55,0	30,08		SE	1	Cloudy.
	2 0	63,0	58,0	30,03		SE	1	Fine.
11	7 0	53,0	57,0	29,97		NE	1	Foggy.
	2 0	64,0	59,5	29,93		S by W	1	Fair.
12	7 0	50,5	57,5	29,93		NW	1	Cloudy.
	2 0	58,0	58,5	29,92		NW	1	Cloudy.
13	7 0	49,5	56,0	29,88		N by W	1	Fair.
	2 0	58,0	57,0	29,84		NNE	1	Fair.
14	7 0	51,5	56,0	29,75	0,295	NE	2	Cloudy.
	2 0	56,5	56,5	29,71		NE	2	Cloudy.
15	7 0	54,0	56,5	29,54	0,874	NE	2	Rain.
	2 0	69,0	58,0	29,60		SE	1	Cloudy.
16	7 0	54,0	37,0	29,65	0,107	SE	1	Fair.
	2 0	61,0	59,5	29,70		S by W	1	Fine.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.		Inches	Inch.	Points.	
	H. M.							
Oct. 17	7 o	53,0	57,5	29,71	0,087	SW	1	Foggy.
	2 o	60,0	59,0	29,74		SW	1	Fair.
18	7 o	51,0	57,5	29,93	0,992	N by E	1	Fair.
	2 o	58,0	58,5	30,02		NE	1	Fine.
19	7 o	44,0	63,5	30,14	0,018	NW	1	Fine.
	2 o	52,0	54,0	30,25		NE	1	Fair.
20	7 o	44,5	51,0	30,20		ENE	1	Fine.
	2 o	50,5	54,0	30,18		NE	2	Fine.
21	7 o	39,5	47,0	30,22		E by S	2	Fair.
	2 o	47,0	47,0	30,16		ENE	2	Fine.
22	7 o	35,5	43,5	30,11		ENE	1	Fair.
	2 o	45,0	44,5	30,04		SE	1	Fine.
23	7 o	40,0	42,5	29,81		E by N	1	Fair.
	2 o	52,0	45,0	29,75		SE	1	Fine.
24	7 o	44,5	46,5	29,78	0,034	SSW	1	Rain.
	2 o	52,0	48,0	29,81		SW	1	Fine.
25	7 o	47,0	46,0	29,85		SW	1	Fair.
	2 o	56,5	53,0	29,82		SW	2	Fair.
26	7 o	53,0	51,0	29,62		SW	1	Fair.
	2 o	59,0	53,0	29,48		SW	3	Cloudy.
27	7 o	43,0	51,5	29,58	0,010	SW	1	Cloudy.
	2 o	51,0	52,0	29,63		SW	1	Fair.
28	7 o	34,5	46,5	29,78		SSW	1	Fair.
	2 o	51,0	48,0	29,69		SW	1	Fine.
29	7 o	51,0	50,0	29,28	0,223	S by W	2	Cloudy.
	2 o	51,0	51,0	29,16		NE	2	Rainy.
30	7 o	53,5	51,0	29,78	0,497	S by E	3	Rain.
	2 o	53,5	53,0	29,71		SSW	3	Rain.
31	7 o	45,0	52,0	29,29	0,740	SSW	1	Fine.
	2 o	51,0	52,5	29,46		SW	1	Fair.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without	within.			Points.	tr.	
	H. M.							
Nov. 1	8	○ 37,0	47,0	29,70		NW.	1	Foggy..
	2	○ 45,0	46,0	29,72		NW	1	Fine.
2	8	○ 45,0	46,0	29,71		S by E	1	Fine.
	2	○ 53,0	48,0	29,70		SW.	1	Fine.
3	8	○ 54,0	51,0	29,72		S by E	1	Cloudy.
	2	○ 60,0	53,0	29,77		SE	1	Cloudy.
4	8	○ 58,0	56,5	29,81		SW.	1	Cloudy.
	2	○ 60,0	58,0	29,86		NW	1	Rain.
5	8	○ 45,0	53,0	30,23		SSW	1	Fine.
	2	○ 55,0	54,5	30,23		WSW	1	Fine.
6	8	○ 41,0	50,0	30,17		SW	1	Fine.
	2	○ 52,5	51,5	30,17		W by N	1	Fair.
7	8	○ 36,5	47,5	30,27		WSW	1	Foggy..
	2	○ 47,0	48,5	30,22		SW	1	Fine.
8	8	○ 46,5	46,5	29,74	0,053	SW b W	1	Rain.
	2	○ 50,5	47,5	29,51		SW b W	1	Fair.
9	8	○ 34,5	44,0	29,54	0,023	NW	1	Fine.
	2	○ 45,0	44,5	29,04		NW	1	Fine.
10	8	○ 36,0	41,0	29,80		NW b W	1	Fair.
	2	○ 49,0	43,5	29,74		SW	1	Cloudy.
11	8	○ 49,0	46,0	29,66	0,049	SW	1	Fair.
	2	○ 55,0	48,0	29,65		SW	1	Fine.
12	8	○ 49,0	49,0	29,78	0,206	SE	1	Rain.
	2	○ 55,0	52,5	29,75		SE	1	Fine.
13	8	○ 44,0	47,5	29,62		SE	1	Fair.
	2	○ 55,0	51,0	29,57		SE	1	Fine.
14	8	○ 37,0	46,5	29,87	0,217	SW	1	Fair.
	2	○ 54,0	48,0	29,97		SW	1	Fine.
15	8	○ 35,0	43,0	30,13		NNW	1	Fair.
	2	○ 46,0	44,5	30,15		NW	1	Fine.
16	8	○ 31,0	40,5	30,21		N by W	1	Fair.
	2	○ 40,0	41,0	30,24		NW	1	Fine.

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	Time.	Therm.	Therm.	Barom.	Rain.	Winds.		Weather.
		without.	within.		inches.	Inch.	Points.	
	H. M.							
Nov. 17	8 o	38,0	40,0	30,35			W by N	1 Foggy.
	2 o	50,0	42,0	30,38			NW	1 Fine.
18	8 o	41,5	42,0	30,30			SW	1 Fair.
	2 o	52,0	44,5	30,30			SW	1 Fair.
19	8 o	48,0	44,0	30,25			WSW	1 Foggy.
	2 o	52,5	46,5	30,15			SW	1 Fine.
20	8 o	41,5	46,5	30,20			W by N	1 Fair.
	2 o	48,5	47,5	30,20			NW	1 Fine.
21	8 o	49,0	49,0	30,20	0,015		SW by S	1 Cloudy.
	2 o	54,5	50,5	30,17			SW	1 Cloudy.
22	8 o	48,0	50,0	30,22			W by S	1 Fair.
	2 o	52,0	51,5	30,15			W by S	1 Fair.
23	8 o	45,0	50,0	30,01	0,063		N by W	1 Fair.
	2 o	48,0	49,5	30,03			NW	1 Fine.
24	8 o	36,0	44,5	30,11			NW	1 Fair.
	2 o	43,0	44,0	30,17			NW	1 Fine.
25	8 o	37,0	41,5	30,26			W by N	1 Fair.
	2 o	45,0	42,0	30,27			W by N	1 Fair.
26	8 o	42,0	43,0	30,21			SW	1 Fair.
	2 o	48,5	45,5	30,15			SW	1 Fair.
27	8 o	46,5	46,0	29,91			NW	1 Fair.
	2 o	50,0	47,5	29,82			SW	1 Fine.
28	8 o	39,0	46,0	29,69	0,133		NWbW	2 Fair.
	2 o	41,0	46,0	29,91			NNW	2 Fine.
29	8 o	32,0	40,5	30,05			SSW	1 Foggy.
	2 o	42,0	42,0	29,94			SW	1 Fair.
30	8 o	49,5	43,5	29,26	0,115		SSW	2 Fine.
	2 o	51,5	45,5	29,12			SW	3 Rain.

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	Time.	Therm. wit. out	Therm. within.	Barom.	Rain.	Winds.		Weather.
						H. M.	Inches	Inch.
Dec. 1	8	○ 37,5	40,0	29,50	0,203	SW	1	Fair.
	2	○ 46,0	46,5	29,77		SW	1	Fine.
	8	○ 39,5	43,5	29,81		SW b W	1	Fair.
	2	○ 43,5	44,5	29,83		SW	1	Fine.
	8	○ 34,0	40,5	29,87		W by S	1	Foggy.
	2	○ 44,0	41,5	29,64		SE	1	Fair.
	8	○ 48,0	45,0	28,98	0,228	WSW	2	Cloudy.
	2	○ 42,0	44,5	29,01		SW	1	Cloudy.
	8	○ 34,0	39,5	29,48	0,143	NW	1	Fair.
	2	○ 37,0	39,5	29,48		W by N	1	Fair.
	8	○ 30,5	36,0	29,60		WNW	1	Fair and frosty.
	2	○ 36,0	38,0	29,48		NW	1	Fine.
	8	○ 34,0	35,5	29,64		NW	1	Frosty.
	2	○ 38,0	38,0	29,69		NW	2	Rain.
	8	○ 36,5	36,5	29,86	0,027	N by W	1	Cloudy.
	2	○ 41,0	38,5	29,90		NW	1	Cloudy.
	8	○ 35,5	37,5	30,02		N by W	1	Fair.
	2	○ 40,0	42,0	30,17		NW	1	Cloudy.
10	8	○ 35,5	38,5	30,31		NNE	1	Foggy.
	2	○ 36,0	40,5	30,44		SW	1	Foggy.
	8	○ 28,0	36,0	30,55		S by W	1	Foggy.
	2	○ 43,0	40,0	30,54		SW	1	Fair.
	8	○ 48,0	43,5	30,48		SW	1	Cloudy.
	2	○ 50,0	45,0	30,40		SW	1	Fair.
	8	○ 44,0	46,0	30,39		SSW	1	Fair.
	2	○ 48,0	48,0	30,45		SW	1	Fine.
	8	○ 38,0	44,0	30,20		E by N	1	Cloudy.
	2	○ 39,5	43,0	30,11		SSE	1	Foggy.
	8	○ 34,0	40,0	30,10		NNE	1	Cloudy.
	2	○ 34,0	40,0	30,12		SW	1	Cloudy.
	8	○ 43,0	41,5	30,07		NNE	1	Cloudy.
	2	○ 43,5	42,0	30,07		NE	1	Fine.

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	Time,	Therm. without	Therm. within.	Barom.	Rain.	Winds.		Weather.
						H. M.	Inches.	
Dec. 17	8	○	34,0	38,0	30,14		NNW	1 Fair.
	2	○	39,5	39,5	30,10		NNW	1 Fair.
18	8	○	36,0	38,0	30,01		N by E	1 Fair.
	2	○	38,0	39,0	29,98		N by W	1 Fine.
19	8	○	35,5	38,0	30,04		NNE	1 Foggy.
	2	○	39,0	39,0	30,00		NE	1 Fair.
20	8	○	34,0	37,0	29,95		NE	1 Foggy.
	2	○	34,0	37,5	29,90		ESE	1 Foggy.
21	8	○	33,0	36,5	29,79	0,037	N by E	1 Cloudy.
	2	○	35,0	36,5	29,73		N by W	1 Cloudy.
22	8	○	29,0	34,0	29,69		W by N	1 Fair.
	2	○	35,0	35,5	29,61		S by W	1 Fair.
23	8	○	32,5	35,0	29,58	0,030	E by S	1 Foggy.
	2	○	36,5	35,5	29,53		SE	1 Rainy.
24	8	○	38,5	37,0	29,08	0,057	SE	1 Fair.
	2	○	42,0	38,5	29,98		SE	1 Rainy.
25	8	○	39,0	39,0	29,25	0,058	SW	1 Cloudy.
	2	○	40,0	40,0	29,31		SW	1 Cloudy.
26	8	○	37,5	40,0	29,21		SSW	1 Cloudy.
	2	○	39,0	45,0	29,15		SW	1 Cloudy.
27	8	○	33,0	38,5	29,28	0,018	N by W	1 Fair.
	2	○	38,0	39,5	29,39		NNE	1 Fair.
28	8	○	35,0	38,5	29,68		N by W	1 Fair.
	2	○	38,0	38,5	29,68		NW	1 Fine.
29	8	○	34,0	37,5	29,59		NNE	1 Fair.
	2	○	37,0	38,0	29,54		NW	1 Fair.
30	8	○	34,5	36,0	29,45		NNE	1 Fair.
	2	○	36,0	36,0	29,51		NE	2 Fine.
31	8	○	33,0	34,5	29,59		NE	2 Cloudy.
	2	○	35,0	34,50	29,60		NE	2 Fair.

1777.	Thermometer without.			Thermometer within.			Barometer.			Rain.
	Greatest Height.	Least Height.	Mean Height.	Greatest Height.	Least Height.	Mean Height.	Greatest Height.	Least Height.	Mean Height.	Inches.
January	57,0	19,0	36,2	49,0	24,0	37,3	30,25	29,26	29,766	1,029
February	59,0	27,0	38,4	53,5	30,0	39,6	30,06	29,08	29,68	1,288
March	72,0	31,0	46,8	65,0	35,5	47,0	30,15	29,29	29,98	1,388
April	63,0	30,0	47,1	58,5	38,0	47,3	30,35	29,45	29,93	0,787
May	70,5	44,0	56,0	64,0	51,5	54,2	30,20	29,33	29,75	4,602
June	76,0	47,5	60,0	78,0	52,0	61,4	30,42	29,65	30,10	3,754
July	84,0	54,0	63,6	73,5	58,0	65,1	30,45	29,31	29,89	5,697
August	80,0	55,0	65,9	74,0	54,5	67,3	30,45	29,50	30,19	1,075
September	76,5	42,5	60,8	70,0	53,0	62,3	30,35	29,69	30,09	0,498
October	69,0	34,5	53,6	66,0	42,5	55,2	30,25	29,16	30,13	3,578
November	60,0	31,0	46,0	58,0	40,0	46,8	30,38	29,12	29,96	0,874
December	50,0	28,0	37,7	48,0	34,0	39,5	30,55	28,98	29,86	0,801
Whole Year			51,0			53,0			29,943	25,371

## VARIATION-NEEDLE.

	7 h. A. M.	12 h. M.	2 h. P. M.	10 or 11 h. P. M.	Daily Mean.
July 11	0 0	0 0	0 0	0 0	0 0
	22 50	22 15	22 11	22 7	22 23
	12 22 58	22 9	22 14	22 6	22 24
	13 22 11	22 13	22 14	22 10	22 12
	14 22 13	22 18	22 18	22 12	22 15
	15 22 14	22 16	22 18	22 9	22 12
	16 22 5	22 15	22 6	22 0	22 6
	17 22 15	22 15	22 16	22 4	22 12
	18 21 57	22 10	22 9	22 0	22 4
	19 22 12	22 11	22 16	22 8	22 12
	20 22 0	22 16	22 16	22 0	22 8
	21 21 59	22 12	22 15	22 5	22 8
	22 22 0	22 21	22 15	22 10	22 11
	23 22 19	22 13	22 15	22 14	22 13
	24 22 5	22 10	22 15	22 5	22 8
Means	22 14	22 14	22 14	22 7	
Mean of all 22 12.					

## DIPPING NEEDLE.

	7 h. A. M.	12 h. M.	2 h. P. M.	10 or 11 h. P. M.	Mean.	
July 11	72 5	72 10	71 40	72 0	72	
12	72 15	72 10	72 20	72 10	72 9	East mark up
13	72 15	72 10	72 20	72 10		permost.
14	72 20		72 5	72 10		
15	73 5	73 0	72 55	72 50	72 59	West.
16	73 0	72 55	72 50	73 10		
17	73 0	73 0	73 0	71 45		
18	71 45	71 45	71 55	72 0	71 43	East mark down.
19	71 55	71 50	71 50	71 40		
20	71 55	71 53	72 15	72 0		
21	71 50	71 50	72 45	72 50		
22	72 45	72 55	72 50	72 55		
23	72 50	72 50	73 10	72 50	72 51	West.
24	72 40	72 55	72 50	72 50		
					72 25	